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PANASONIC CT-F2524 MANUAL

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Panasonic®

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Operating Instructions

Televisor a color
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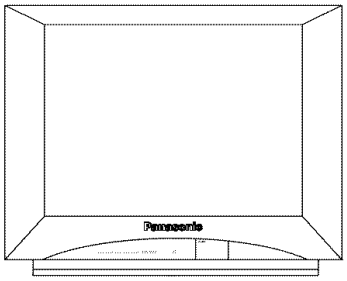
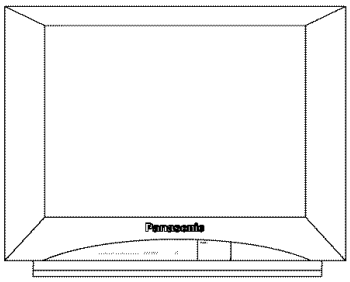
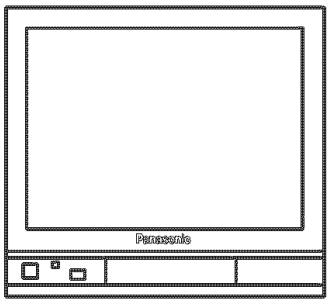


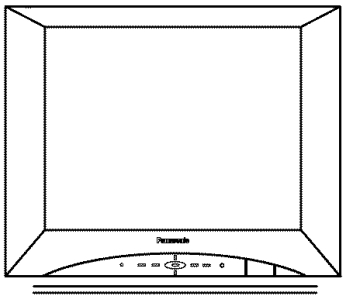
CT-20SL14
CT-24SL14
CT-27SL14



CT-F2124
CT-F2124L
CT-F2134
CT-F2134L
CT-F2524
CT-F2524L
CT-F2924
CT-F2924L



CT-27SC14
CT-32SC14



CT-32SL14
CT-36SL14

TQB2AA0499-1 40223
PRINTED IN USA
IMPRESO EN EE.UU
IMPRIMÉ AUX ÉTATS-UNIS

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrow head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

The Class II insulation symbol (square within a square) indicates that this product has been evaluated and tested to comply with Class II insulation requirements.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Read these instructions completely before operating television.

Contents are subject to change without notice or obligation.

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Important Information

FCC CAUTION: **ANY CHANGES OR MODIFICATIONS TO THIS TV RECEIVER NOT EXPRESSLY APPROVED BY MATSUSHITA ELECTRIC CORPORATION OF AMERICA COULD CAUSE HARMFUL INTERFERENCE, WHICH WOULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.**

ENVIRONMENTAL NOTICE: **THIS PRODUCT UTILIZES CATHODE RAY TUBES (CRT) AND OTHER COMPONENTS THAT CONTAIN LEAD. DISPOSAL OF THESE MATERIALS MAY BE REGULATED IN YOUR COMMUNITY DUE TO ENVIRONMENTAL CONSIDERATIONS. FOR DISPOSAL OR RECYCLING INFORMATION PLEASE CONTACT YOUR LOCAL AUTHORITIES, OR THE ELECTRONICS INDUSTRIES ALLIANCE: <HTTP://WWW.EIAE.ORG.>**

The Energy Star label, a symbol for energy efficiency, was created by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) to help customers identify products that can save them money and protect the environment by saving energy. Energy Star compliant products generally consume less energy than similar standard products.

BBE
High Definition Sound

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Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897.
BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
BBE High Definition Sound restores clarity and presence for better speech intelligibility and music realism.

Important Information Regarding The Use Of Video Games, Computers, Or Other Fixed Image Displays

WARNING: The marking or retained image on the picture tube resulting from viewing fixed image is not an operating defect and as such is not covered by Warranty.

This television is designed to display constantly moving images on the screen. Continuous viewing of stationary images such as letterbox pictures on standard screen TVs (with top/bottom bars), non-expanded standard (4:3) pictures on wide screen TVs (with side bars shown on each side of an image), stock market report bars (ticker running at the bottom of the screen), video game patterns, fixed scoreboards, bright station logos, on-line (Internet) or repetitive computer style patterns should be limited.

The extended use of fixed image program material can cause permanent picture tube damage, shown as a "shadow image" viewable on normal programs. This type of irreversible picture tube deterioration can be limited by performing the following steps:

- Do not display the fixed image for extended periods of time.
- Turn the power off when not in use.

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ENGLISH

Note: *The warranty and service center information is located in the back of this manual.*

Congratulations

Your new TV Monitor/Receiver features a solid state chassis that is designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

Customer Record

The model and serial number of this product are located on the back of the TV. You should note the model and serial number in the space provided and retain as a permanent record of your purchase. This will aid in identification in the event of theft or loss. Product registration for U.S. customers is available at: **www.prodreg.com/panasonic**.

Model Number

Serial Number

Care and Cleaning

Screen (Turn TV Off)

- Use a mild soap solution or window cleaner and a clean cloth.
- DO NOT USE ABRASIVE CLEANERS.
- Avoid excessive moisture and wipe dry.

Warning: *Do not spray any type of cleaning fluid directly on the screen.*

Cabinet and Remote Control

- For cabinets and remote control, use a soft cloth dampened with water or a mild detergent solution.
- Avoid excessive moisture and wipe dry.
- Do not use benzene, thinner or other petroleum based products.

Specifications

Specifications are subject to change without notice or obligation.

Power Source **CT-20SL14 (1.9A)** **CT-20SL14T (1.9A)** **CT-24SL14 (2.4A)** **CT-24SL14U (2.4A)** **CT-27SL14 (2.4A)** **CT-27SL14U (2.4A)** **CT-27SC14 (2.4A)** **CT-27SC14U (2.4A)** **CT-27SC14M (2.4A)** **CT-27SC14MU (2.4A)** **CT-32SL14 (2.7A)** **CT-32SL14U (2.7A)** **CT-32SC14 (2.7A)** **CT-32SC14U (2.7A)** **CT-36SL14 (2.7A)** **CT-36SL14U (2.7A)**	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-113
Video Input Jacks	1Vp-p, 75 Ohm, Phono Jack Type
Audio Input Jacks	500mV RMS 47K Ohm
Audio Output Jacks	0-2.0V RMS 4.7K Ohm
Component Input (Y / P_B / P_R)	75 Ohm, Phono Jack Type
S-Video Input Jacks	S-Video (Y-C) Connector

Feature Chart

MODELS	*CT-20SL14*	*CT-24SL14*	*CT-27SC14*	*CT-27SL14*	*CT-32SC14*	*CT-32SL14*	*CT-36SL14*
FEATURES							
MENU LANGUAGE ENG/SPAN/FR	●	●	●	●	●	●	●
GEOMAGNETIC CORRECTION					●	●	●
TILT CORRECTION			●	●	●	●	●
CHANNEL INFO BANNER	●	●	●	●	●	●	●
VIDEO PICTURE MEMORY	●	●	●	●	●	●	●
VIDEO INPUT SKIP	●	●	●	●	●	●	●
VIDEO INPUT LABELING	●	●	●	●	●	●	●
VM VELOCITY MODULATION		●	●	●	●	●	●
CLOSED CAPTIONING	●	●	●	●	●	●	●
V-CHIP CAPABILITY	●	●	●	●	●	●	●
VIDEO NORM	●	●	●	●	●	●	●
AUDIO NORM	●	●	●	●	●	●	●
STEREO	●	●	●	●	●	●	●
AI SOUND	●	●	●	●	●	●	●
BBE					●	●	●
BASS/BALANCE/ TREBLE	●	●	●	●	●	●	●
SURROUND	●	●	●	●	●	●	●
A/V PROGRAM OUT					●	●	●
A/V IN (REAR/FRONT)	*3 (2/1)*	*3 (2/1)*	*3 (2/1)*	*3 (2/1)*	*3 (2/1)*	*3 (2/1)*	*3 (2/1)*
S-VIDEO INPUT (REAR/FRONT)	*(1/0)*	*(1/0)*	*(1/0)*	*(1/0)*	*(1/1)*	*(1/1)*	*(1/1)*
COMPONENT INPUT	●	●	●	●	●	●	●
AUDIO OUT	●	●	●	●	●	●	●
HEADPHONE JACK	●	●		●	●	●	●

ENGLISH

Installation

Television Location

Follow these recommendations before deciding the location of your television.

- Avoid excessive sunlight or bright lights, including reflections.
- Keep away from excessive heat or moisture. Inadequate ventilation may cause internal component failure.
- Fluorescent lighting may reduce remote control transmitting range.
- Keep away from magnetic equipment, including motors, fans and external speakers.

WARNING: Use this television receiver only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. In order to avoid injury to children, never place your television receiver on a piece of furniture that is capable of being tilted by a child leaning on it, pulling on it, standing on it, or climbing on it. A falling television can cause serious injury or even death.

CT-27SL14, CT-27SL14U:

CAUTION: These television receivers for use only with PANASONIC TY-27SL33T stand. Use with other carts (or stands) is capable of resulting in instability causing possible injury.

CT-32SL14, CT-32SL14U:

CAUTION: These television receivers for use only with PANASONIC TY-32HL43T stand. Use with other carts (or stands) is capable of resulting in instability causing possible injury.

CT-36SL14, CT-36SL14U:

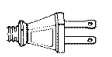
CAUTION: These television receivers for use only with PANASONIC TY-36HL43T stand. Use with other carts (or stands) is capable of resulting in instability causing possible injury.

Optional Cable Connections

Shielded audio and video cables should be used between components. For best results:

- Use 75-ohm coaxial shielded cables.
- Use appropriate input and output connectors, that match your component connectors.
- Avoid long cables to minimize interference.

AC Power Supply Cord



Polarized plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE A PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

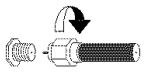
PROTECT POWER CORDS FROM BEING WALKED ON, ROLLED OVER, CRIMPED, BENT, OR PINCHED, PARTICULARLY AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPARATUS.

Cable / Antenna Connection

For proper reception, either a cable or antenna connection is required.

Cable Connection

Connect the cable supplied by your local cable company. Tighten with fingers only. Use of any tool (e.g. pliers) for tightening may result in tuner damage.



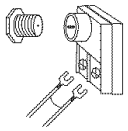
Incoming Cable from Cable Company

75 Ohm VHF/UHF on back of TV

Note: *A cable converter box may be required for proper reception. Check with your local cable company for compatibility requirements.*

Antenna Connections

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended.

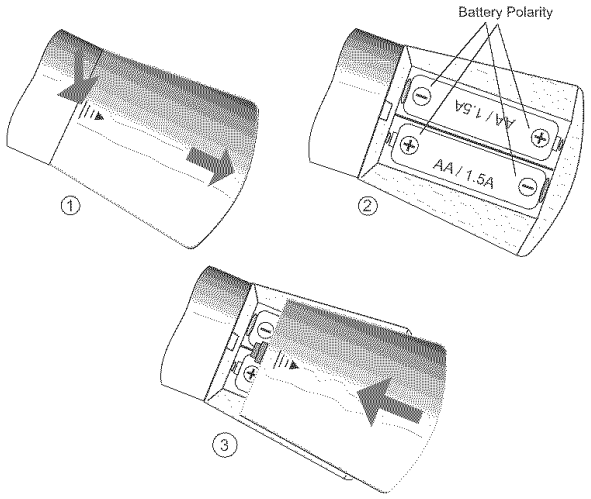


Incoming Cable from Home Antenna

Note: *Cable Mode is preset at the factory. Antenna users must change to TV Mode in the Set Up menu under Prog Chan (page 13).*

Remote Control Battery Installation

Requires two AA batteries (supplied).



Procedure

1. Turn the remote control face down. Remove battery cover by pressing down on the marking on the cover and sliding it off in the direction indicated.
2. Install batteries matching (+) and (-) polarity signs.
3. Replace the battery cover by sliding in reverse until the lock snaps.

Note: *Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control.*

Precautions

- Replace batteries in pair.
- Do not mix battery types (zinc carbon with alkaline).
- Do not recharge, heat, short-circuit, disassemble, or burn batteries.

Initial Set Up Menu

Note: *Menus may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model capabilities.*

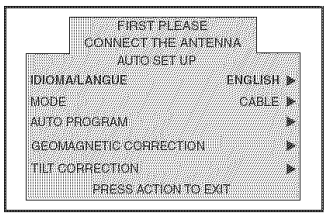
For your convenience, Auto Set up menu will be displayed on screen when the set is turned on for the first time. If needed, follow the menus and procedures for setting up the features.

IDIOMA/LANGUE

To change menu language to ENGLISH, SPANISH or FRENCH.

Procedure

- Press **VOL ▶** to select English, Spanish or French.

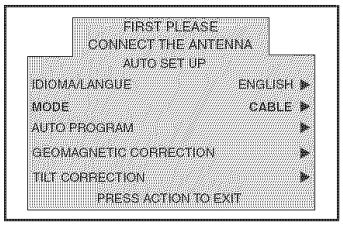


MODE

To select TV (antenna) or CABLE mode depending on the signal source.

Procedure

- Press **VOL ▶** to select TV or CABLE.

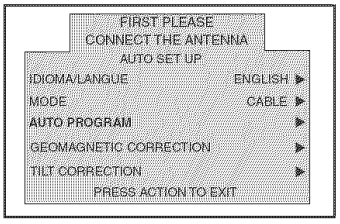


AUTO PROGRAM

To automatically program all available channels received through the RF input.

Procedure

- Press **VOL ▶** to start Auto Programming.



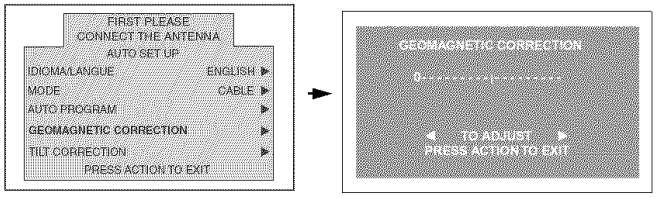
GEOMAGNETIC CORRECTION

(models CT-32SC14, CT-32SL14 and CT-36SL14 only)

This feature is used to adjust discoloration of the picture due to the earth's magnetic field in the area.

Procedure

- Press **VOL ▶** to display adjustment menu.
- Press **◀ VOL** or **VOL ▶** to adjust discoloration in picture.



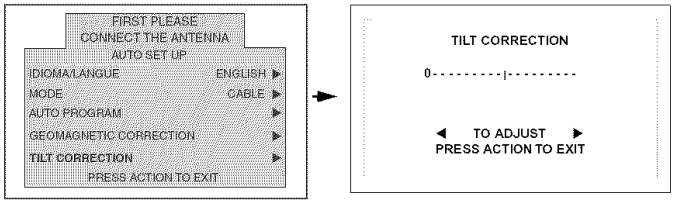
TILT CORRECTION

(models CT-27SC14, CT-27SL14, CT-32SC14, CT-32SL14 and CT-36SL14 only.)

This feature is used to adjust the tilt of the picture due to earth's magnetic field in the area.

Procedure

- Press **VOL ▶** to display adjustment menu.
- Press **◀ VOL** or **VOL ▶** to adjust picture tilt.



ENGLISH

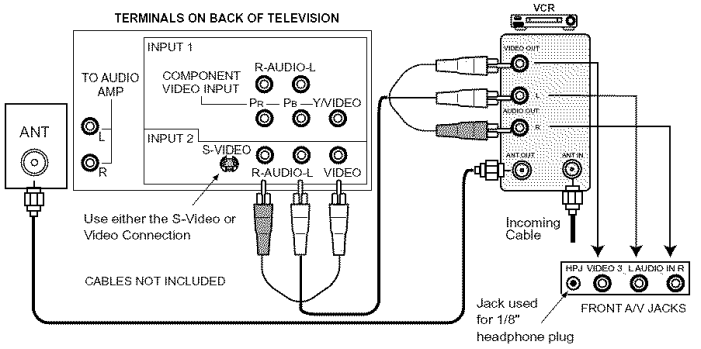
Optional Equipment Connections

Note: *The remote control must be programmed with supplied codes to operate the optional equipment.*

VCR Connection

VCRs, video disc players, video game equipment, and DSS equipment can also be connected to the video inputs. See the optional equipment manual for more information.

Note: *VIDEO 1 input is a dual-purpose input. It is primarily intended for connection with 480i devices such as a DVD player using the Y P_B P_R component video jacks and Audio L & R jacks. However, it can also be connected to conventional composite video sources such as a VCR, using only the Y/Video jack and Audio L & R jacks. The on-screen label will display Component or Video 1 depending on which source is connected.*



Note: *Rear A/V jacks diagram may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model's capabilities.*

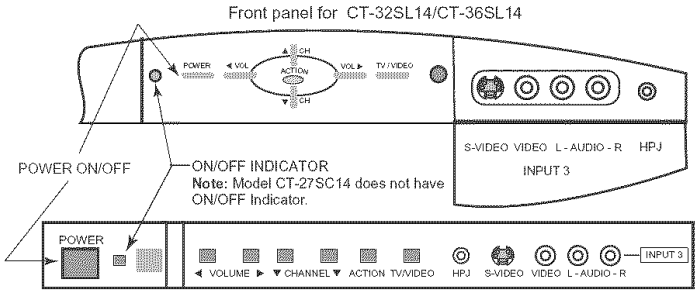
Procedure

- Connect equipment as shown to front or rear Audio/ Video input jacks.
- Select the Video mode by pressing **TV/VIDEO** button.
- Operate optional equipment as instructed in equipment manual.

Note: *Do not connect S-VIDEO and VIDEO signal to INPUT 2 at the same time. If both are connected, signal interference will result. Use either the S-VIDEO or the Video signal only (models CT-20SL14, CT-24SL14, CT-27SC14 and CT-27SL14 only).*

Front Control Panel

The front control panel can be used to access menus and switch video mode when the remote control is not available.



Front panel for CT-27SC14/CT-32SC14 (may vary depending on model)

Note: *The ON/OFF indicator LED (red) will light up (red) when the set is on.*

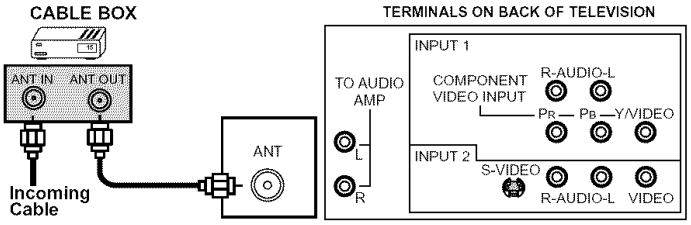
Procedure

- Connect equipment to front Audio/Video input jacks.
- Press TV/VIDEO button to select desired input mode.
- Operate optional equipment as instructed in equipment manual.

Note: *Front A/V jacks diagram may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model's capabilities.*

Cable Box Connection

Follow this diagram when connecting your television to a Cable Box.



CABLES NOT INCLUDED

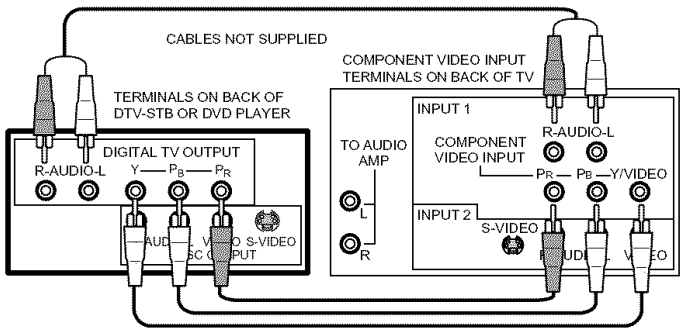
Procedure

- Tune the television to channel 3 or 4 depending on the RF out setting of the cable box.
- Using the cable box, tune to the premium cable channel you want to view.

Digital TV - Set-Top Box (DTV-STB) or DVD Player Connection

Use this diagram to connect the Panasonic DTV-STB (Digital TV-Set-Top Box) to the back of your TV.

Note: *Rear A/V jacks diagram may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model's capabilities.*



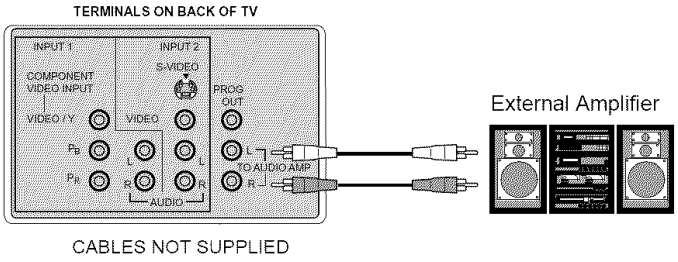
Notes:

- There are three video jacks, Y, P_B, and P_R. Separate component color inputs provide luminance and color separation. Use the L (left) and R (right) audio inputs.
- Select DTV-STB to **480i** output mode. TV set can receive **480i** signal only. Picture distortion will result if any other type of format is selected (i.e. 480p, 720p or 1080i).

Amplifier Connection (TO AUDIO AMP)

Connect to an external audio amplifier input for listening to a stereo system.

Note: *TO AUDIO AMP terminals cannot be connected directly to external speakers.*



Note: *Rear A/V jacks diagram may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model's capabilities.*

Audio Adjustments

- Select TV SPEAKERS ON from AUDIO menu.
- Set amplifier volume to minimum.
- Adjust television volume to desired level.
- Adjust amplifier volume to match the television.
- Select SPEAKERS OFF & VARIABLE AUDIO OUT from AUDIO menu.
- Volume, mute, bass, treble and balance are now controlled through the television.

Note: *Select SPEAKERS OFF & FIXED AUDIO OUT to control audio functions through the external amplifier.*

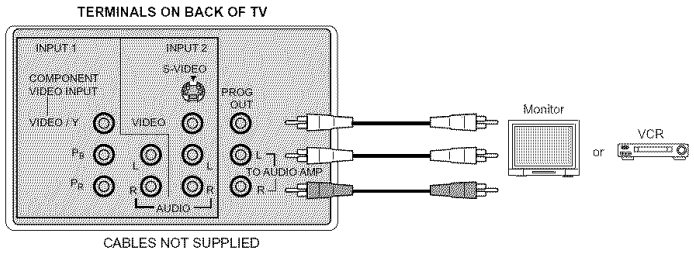
Program Out Connection (PROG OUT)

(models CT-32SC14, CT-32SL14 and CT-36SL14 only.)

To use the television audio and video with optional equipment. Connect the PROG OUT and TO AUDIO AMP connections on the back of the television.

Notes:

- When a component input video signal is connected to VIDEO 1(Y, P_B, P_R) terminals, and the TV main picture is Component, the Program output video will be luminance signal (no color).
- When S-VIDEO input signal is used for TV main picture, the Program output video signal will be luminance signal (no color).



Note: *Rear A/V jacks diagram may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model's capabilities.*

Procedure

- Connect optional equipment to PROG OUT and TO AUDIO AMP R/L.
- PROG OUT terminal display is the same as on-screen display.
- See optional equipment manual for further instructions for recording and monitoring.

ENGLISH

Remote Control Operation

POWER

POWER

Press to turn ON and OFF.

TV VCR DBS/CBL DVD

Press to select remote operation.

ACTION

Press to access menus.

MUTE

Press to mute sound. Press to display and cancel CC (Closed Caption).

TV/VIDEO

Press to select TV or Video mode.

MENU

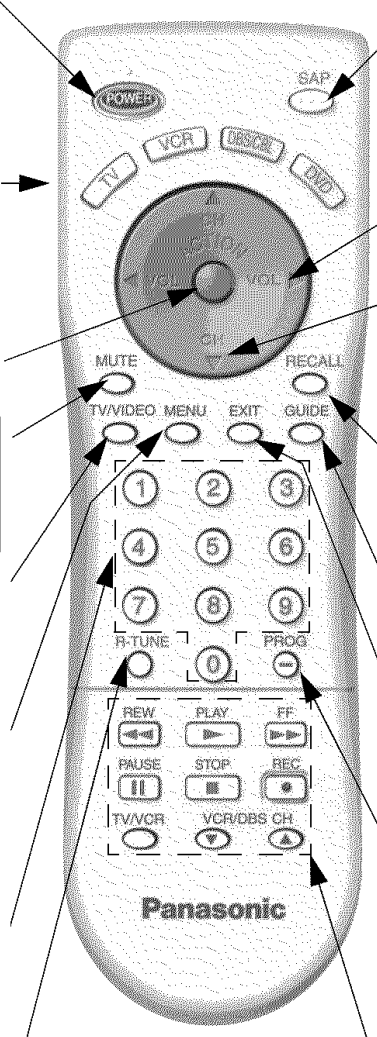
Press to access DBS menus.

1 2 3
4 5 6
7 8 9
0

Press numeric keypad to select any channel.

R-TUNE

Press to switch to previously viewed channel or video mode.



EUR7613Z6A

SAP

Press to access second audio program.

VOL VOL

Press to adjust TV sound and navigate in menus.

CH

CH

Press to select next or previous channel and navigate in menus.

RECALL

Press to display time, channel, sleep timer, and other options.

GUIDE

DBS functions button.

EXIT

DBS functions button.

PROG

Press to enter the minor number in a compound channel number (DBS mode only).

REW	PLAY	FF
PAUSE	STOP	REC
TV/VCR	VCR /DBS CH	

Component function buttons

Operating Components with Remote Control

Note: *Refer to page 10 for programming Remote Control procedure.*

Operating a VCR

Program the remote control to use with the VCR.

TO DO THIS...	PRESS
Turn on/off	POWER
Select TV Input mode for VCR	TV/VIDEO
Change Channels up/down	VCR/DBS CH ▼ ▲
Record	REC ●
Play	PLAY ►
Stop	STOP ■
Fast Forward	FF ►►
Rewind the Tape	REW ◄◄
Pause	PAUSE ▮▮
Change to TV or VCR Mode	TV/VCR
On screen VCR Display	RECALL

Operating a CABLE BOX

Program the remote control to use with Cable Box.

TO DO THIS...	PRESS
Turn on/off	POWER
Select a Channel	1 2 3 4 5 6 7 8 9 0
Change Channels Up/Down	CH ▲ CH ▼
Back to previous channel	R-TUNE

Operating a DBS

Program the remote control to use with DBS.

TO DO THIS...	PRESS
Turn on/off	POWER
Display DBS menu	MENU
Menu Navigation	CH ▲ VOL ◄ VOL ► CH ▼
Select a Channel	1 2 3 4 5 6 7 8 9 0
Program Infomation	RECALL
Back to previous channel	R-TUNE
Select next page up/down	VCR DBS CH ▼ ▲
Exit menus	EXIT
Display program Guide	GUIDE
Minor channel numbers	PROG

Operating a DVD

Program the remote control to use with DVD

TO DO THIS...	PRESS
Turn on/off	POWER
Next/Previous Chapter	CH ▲ CH ▼
DVD Display	RECALL
Skip Search Reverse	REW ◄◄
Skip Search Fast Forward	FF ►►
Play	PLAY ►
Open/Close	TV/VCR
Stop	STOP ■
Still	PAUSE ▮▮
Slow +/-	VCR/DBS CH ▼ ▲

ENGLISH

Programming The Remote Control

The Universal Remote Control can be programmed to operate many manufacturers' components, using the component function buttons for VCR, DVD, CABLE or DBS. Follow the procedures for programming your Remote Control with or without a code for the component.

Device	Operates	Default
TV	TV (Panasonic Only)	Panasonic Code
VCR	VCR (Preset)	Panasonic Code
DBS/CBL	DBS STB & CBL STB (Preset)	Panasonic DBS Code
DVD	DVD (Preset)	Panasonic Code

Note: *Determine the manufacturer of the component and look in the table for the code (found on page 11).*

Procedure

1. Confirm that the external component is plugged in and operating.
2. Turn the component off.
3. Press ACTION and POWER together, **for at least 5 seconds**. After 5 seconds, the illuminated mode (component) buttons will begin to flash. Release the ACTION and POWER buttons.
4. Press appropriate component button on the Remote Control VCR, DVD, CABLE or DBS. The component button will illuminate steadily and all others will go out.
5. Enter the 3-digit component code using the Remote Control numeric keypad (0 ~ 9 buttons). The component button will blink twice.
6. Press the Remote Control POWER to test the component. If the procedure was successful, the component will turn on and the component key will blink twice and then go out.

Note: *If the component does not operate with the Remote Control, repeat steps 3 through 6 using another code (some brands have multiple codes). If an incorrect code is entered, or if the procedure takes longer than 30 seconds, the programming will fail.*

Programming Without A Code

This procedure searches all codes and is called the "sequence method."

1. Confirm that the external component is plugged in and on.
2. Turn the component off.
3. Press ACTION and POWER together, **for at least 5 seconds**. After 5 seconds, the illuminated mode (component) buttons will begin to flash. Release the ACTION and POWER buttons.
4. Press the appropriate component button on the Remote Control. The component button will illuminate steadily and all others will go out.
5. Press the POWER button to set the remote control into the step and set mode.
6. Point the remote control towards the component.
7. Press **VOL ▶** (the mode key will blink three times), then press the Remote Control POWER button to test the component. Continue this process until the proper code is found. If the procedure was successful, the component will **turn on**.

Note: *Each time you press the* **VOL ▶** *button, make sure that the component key blinks twice before pressing the* POWER *button.*

8. Once the device responds, press ACTION to store the code. The mode (component) button will blink twice.

Note: *It may take many attempts before the correct code is found. If you miss a code, press* **◀ VOL**, *then press the POWER button to test the component.*

Component Codes

The Universal Remote Control is capable of operating many component brands after entering a code. Some components may not operate because the codes are not available due to limited memory. The Universal Remote Control does not control all features found in each model.

Write the code numbers from tables in this space. This will serve as a reference if you need to program your Remote Control.		
VCR ☐☐☐	**CABLE** ☐☐☐	**DVD** ☐☐☐
DBS ☐☐☐		

Component Codes (cont.)

Codes For VCR	
Brand	Code
Admiral	335
Aiwa	332
Akai	314, 315, 316, 329
Audio Dynamic	311, 339
Bell & Howell	305, 313
Broksonic	320, 326
Canon	323, 325
CCE	343
Citizen	306
Craig	305, 306, 329
Curtis Mathes	324, 345
Daewoo	301, 324, 343
DBX	310, 311, 339
Dimensia	345
Emerson	303, 319, 320, 325, 326, 343
Fisher	305, 307, 308, 309, 313
Funai	320, 326, 334
GE	324, 333, 345
Goldstar	306
Gradiente	334
Hitachi	300, 323, 345
Instant Replay	323, 324
Jensen	339
JVC	310, 311, 334,339
Kenwood	306, 310, 311, 339
LXI	300, 305, 306,307, 308, 309
Magnavox	323, 324, 331
Marantz	310, 311, 339
Marta	306
Memorex	309, 324
MGA	338, 340, 341, 347, 348
Minolta	300, 345
Mitsubishi	338, 340, 341, 347, 348
Multitech	304, 347
NEC	310, 311, 334, 339
Olympic	323, 324
Optimus	306, 321, 328, 335
Orion	320, 326
Panasonic	321,322, 323, 324

Codes For VCR (cont.)	
Brand	Code
J.C. Penney	300,305, 310, 311, 324, 339, 345
Pentax	300, 311, 345
Philco	320, 323, 324, 326, 331, 343
Philips	323, 324, 331
Pioneer	323
Proscan	300, 301, 302, 323, 324, 331, 333, 345, 346
Quasar	321, 322, 323, 324
Radio Shack	305, 309, 324, 333, 336, 340
RCA	300, 301,302, 323, 324, 331, 333, 345, 346
Realistic	305, 309, 324, 336, 340
Samsung	302, 304, 333
Sansui	320, 326, 339, 352
Sanyo	305, 309, 313
Scott	301, 302, 304, 309, 320, 326, 338, 340, 347, 348
Sears	300, 305, 306, 307, 308
Sharp	335, 336
Shintom	317
Signature 2000	335
Singer	337
Sony	328, 329, 330
Sylvania	331, 324, 331
Tashiro	306
Tatung	310, 311, 339
Teac	310, 311, 339
Technics	321, 322, 323, 324
Teknika	324
Toshiba	301, 346
Vector Research	311
Wards	306, 309, 335, 336, 344
Yamaha	305, 310, 311, 339
Zenith	306,344

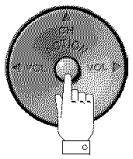
Codes For Cable Box	
Brand	Code
ABC	224
Archer	225, 232
Cableview	205, 232
Citizen	205, 222
Curtis	212, 213
Diamond	224, 225, 232
Eagle	229
Eastern	234
GC Brand	205,232
Gemini	222
General Instrument/ Jerrold	211, 219, 220, 221, 222, 223, 224, 225, 226, 227
Hamlin	212, 218, 240, 241, 242, 245
Hitachi	203, 224
Macom	203, 204, 205
Magnavox	233
Memorex	230
Movietime	205, 232
Oak	202, 237,239
Panasonic	209, 210, 214
Philips	206, 207, 228, 229, 230
Pioneer	201, 216
Pulsar	205, 232
Puser	232
RCA	215
Realistic	232
Regal	212, 218, 240, 241, 242, 245
Regency	234
Rembrandt	205, 232, 237
Samsung	205
Scientific Atlanta	211, 212, 213
Slmark	201, 205
Sprucer	205, 210
Stargate	205, 232
Teleview	201, 205
Texscan	244
Tocom	235
Toshiba	204
Unika	225, 232
Universal	222, 232
Videoway	206
Viewstar	229, 230
Zenith	200, 217
Zenith / Drake Satellite	200

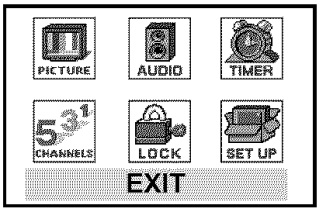
Codes For DBS	
Brand	Code
Dish Network (Echostar)	105, 115, 116
Echo Star	105
Express VU	105, 115
G.E.	106
G.I. (General Instrument)	108
Gradiente	114
Hitachi	103, 111, 112
HNS (Hughes)	103
Magnavox	101, 102
Panasonic	104
Philips	101, 102
Primestar	108
Proscan	106, 109, 110, 113
RCA	106, 109, 110, 113
Sony	107
Star Choice	103, 108
Toshiba	100
Uniden	101, 102

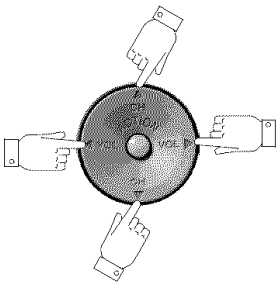
Codes For DVD	
Brand	Code
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

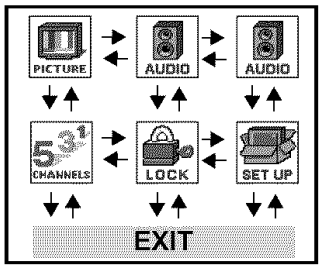
ENGLISH

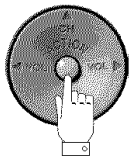
Icon Menu Navigation

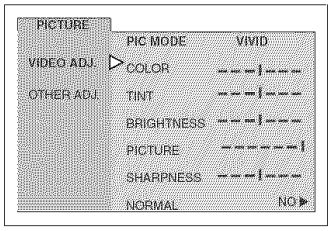
Press  to display the Icons.

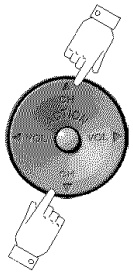


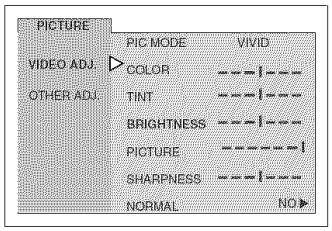
Press  to select desired icon.

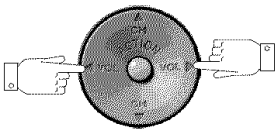


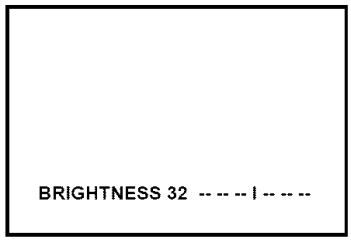
Press  to display selected Icon features.

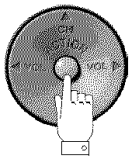


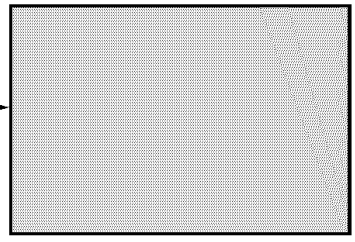
Press  to select feature, then press **VOL ▶**.



Press  to adjust or activate feature.



Press  repeatedly to exit menus.



NORMAL PICTURE

Icon Menu Operation

Notes:

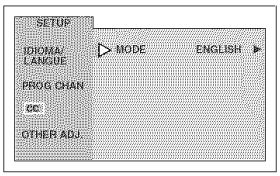
- Some menus may vary depending on model.
- Refer to page 12 for Icon Menu Navigation procedures.

SET UP

IDIOMA/LANGUE

❒ MODE - Select IDIOMA/LANGUE to change menu language to ENGLISH, ESPAÑOL (Spanish) or FRANÇAIS (French).

Note: *While highlighted, press* ***VOL ▶*** *to select English, Spanish or French.*



PROG CHAN (Program Channels)

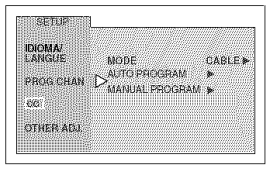
Note: *While highlighted, press* ***VOL ▶*** *to select or activate features.*

❒ MODE - To select TV (antenna) or CABLE mode depending on the signal source.

❒ AUTO PROGRAM - To automatically program all available channels received through the RF input.

❒ MANUAL PROGRAM - To manually add or delete channels.

Note: *Use Remote numeric keypad to enter channel numbers in Manual Program sub menu.*



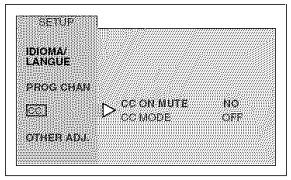
CC (CLOSED CAPTIONING)

This television contains a built-in decoder that displays CC (Closed Captioned) text across the screen (white or colored letters on black background). It allows the viewer to read the dialogue of a television program or other information. The program viewed must include Closed Captioning for the feature to work.

Note: *While highlighted, press* **VOL ▶** *to select modes.*

❒ CC ON MUTE - Activates the onscreen Closed Caption feature when the **MUTE** button on the remote control is pressed. To deactivate press **MUTE** button again. The recommended set up for Closed Caption On Mute is:

- CC ON MUTE: C1
- CC MODE: OFF



❒ CC MODE - Activates the onscreen Closed Caption feature by selecting one of the following modes.

- OFF - When Closed Caption is not desired.
- C1 - For video related information to be displayed, up to 4 lines onscreen at a time. (It does not block relevant parts of the picture). Text may be in any language.
- C2 - For other modes of video related information.

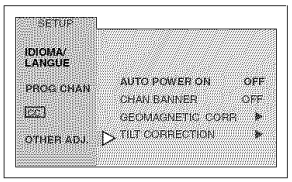
Note: *C1 mode is recommended for viewing Closed Caption.*

OTHER ADJUSTMENTS

Note: *While highlighted, press* **VOL ▶** *to select or activate features.*

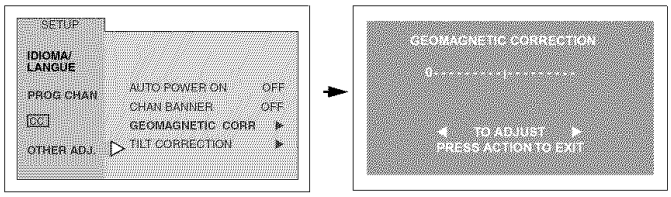
❒ AUTO POWER ON - Select SET to power up the TV at the same time as the Cable box or other components. When this feature is On, Timer functions will be disabled.

❒ CHAN BANNER - Select ON to display onscreen banner with channel information and program rating when changing channels or pressing RECALL button.



❒ GEOMAGNETIC CORR - This feature is used to adjust discoloration of the picture due to earth's magnetic field in the area.

Note: *This feature is only used in models CT-32SC14, CT-32SL14 and CT-36SL14).*

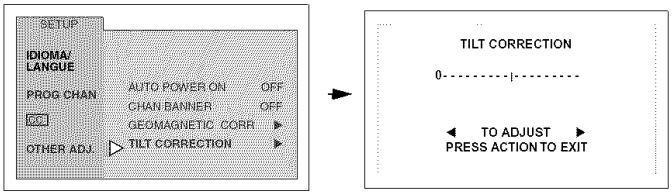


Note: *Menus may vary, depending on model. Please refer to the FEATURE CHART on page 3 for your model capabilities.*

Procedure

- Press **VOL ▶** to display adjustment menu.
- Press **◀ VOL** or **VOL ▶** to adjust discoloration in picture.

❒ TILT CORRECTION - This feature is used to adjust tilt of the picture due to earth's magnetic field in the area.



Procedure

- Press **VOL ▶** to display adjustment menu.
- Press **◀ VOL** or **VOL ▶** to adjust picture tilt.

ENGLISH

PICTURE

Note: *While the sub-menu features are highlighted, press* **VOL ▶** *to adjust or activate.*

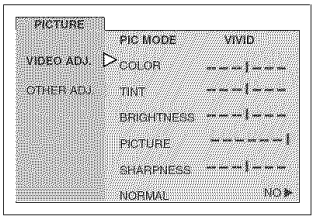
VIDEO ADJ.

❒ PIC MODE - Lets you choose one of three pre-set Picture Modes that best suit the program you are viewing.

Note: *Each mode has its own picture settings (Color, Tint, Brightness, Picture, Sharpness and Color Temp).*

- VIVID - This is the default mode. It provides enhanced picture contrast and sharpness for viewing in a well-lighted room.
- STANDARD - Recommended for normal viewing conditions with subdued room lighting.
- CINEMA - Select this mode for watching movies in a darkened room. It provides a soft, film-like picture.

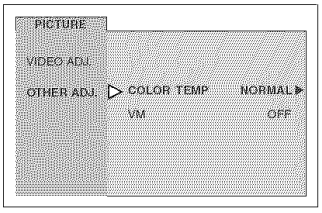
❒ COLOR - Adjusts desired color intensity.
❒ TINT - Adjusts natural flesh tones.
❒ BRIGHTNESS - Adjusts dark areas of picture.
❒ PICTURE - Adjusts white areas of picture.
❒ SHARPNESS - Adjusts clarity of outline detail.
❒ NORMAL - Reset adjustments to factory default settings.



OTHER ADJ.

Highlight OTHER ADJ. and then press **VOL ▶**.

Note: *While highlighted, press* ***VOL ▶*** *to select or activate feature.*



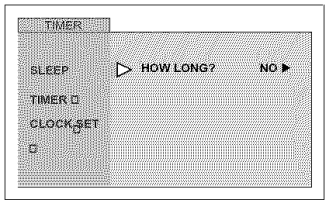
- COLOR TEMP (temperature) - To increase or decrease WARM (red) and COOL (blue) colors to suit personal preferences.
- VM (VELOCITY MODULATION) - Increase picture sharpness and provides crisp white to black transitions.

Note: *VM is not available in model CT-20SL14.*

TIMER

SLEEP

❒ How Long? - Select 30, 60 or 90 minutes for TV to turn off. Select NO to turn off Sleep timer.

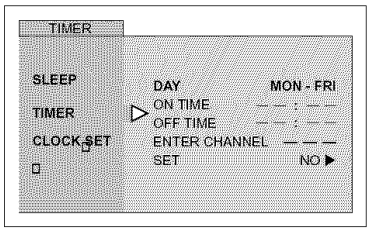


TIMER

Select timer to turn the television on and off at selected times, on selected channels, and on selected days. Time must be entered in CLOCK SET to operate the TIMER features.

Procedure

- Use the **VOL ▶** and **CH ▼** to set day, On Time, Off Time and Channel number, then use the **VOL ▶** to activate.



Notes:

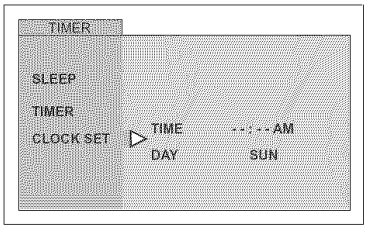
- The television automatically turns OFF after 90 minutes when turned ON by the TIMER. If the OFF time is selected or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.
- The TIMER is active when the television is OFF or ON. The television will switch to the selected channel at the selected time set in the TIMER.

CLOCK SET

❒ TIME - Set the time of the day.
❒ Day - Set the day of the week.

Procedure

Note: *Use* **◀ VOL , VOL ▶** *and* **CH ▼** *to set time and day.*

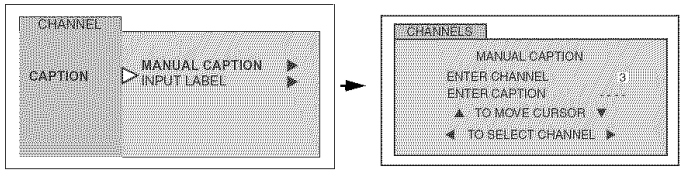


CHANNELS

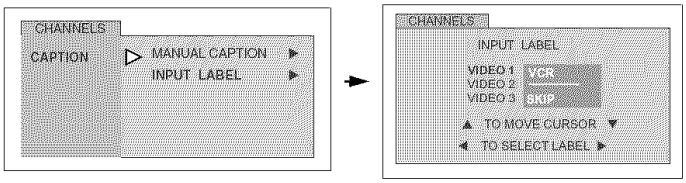
CAPTION

❒ MANUAL CAPTION - To enter numbers and captions manually.

Note: *Use the remote numeric keypad to select desired channel (refer to your local TV guide).*



❒ INPUT LABEL - To label video input connections for onscreen display.



Procedure

- Press **VOL** ▶ to display next menu.
- Press **CH** ▼ or **CH** ▲ to move cursor.
- Press ◀ **VOL** or **VOL** ▶ to select desired preset input label (see chart below).

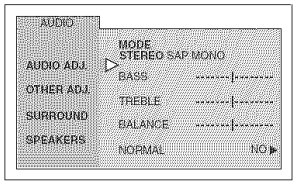
INPUT LABEL CHART

PRESET LABELS	REASON FOR SELECTING
VCR	Select when VCR is connected to video input.
DVD	Select when DVD is connected to video input.
SKIP	Select to skip unused video input when pressing TV/VIDEO button.
CABLE	Select when CABLE box is connected to video input.
DBS	Select when DBS is connected to video input.
DTV STB	Select when digital TV set-top-box is connected to video input.
PVR (Personal Video Recorder)	Select when a personal video recorder is connected to video input.
GAME	Select when Video GAME is connected to video input.
AUX	Select when other components are connected.
____	Select to delete input label.

AUDIO

AUDIO ADJ.

❒ MODE - Select STEREO, SAP (Second Audio Program) or MONO. (Use MONO when stereo signal is weak).
❒ BASS - Increase or decrease the bass response.
❒ TREBLE - Increase or decrease the treble response.
❒ BALANCE - Emphasize the left/right speaker volume.
❒ NORMAL - Reset BASS, TREBLE and BALANCE adjustments to factory default settings.



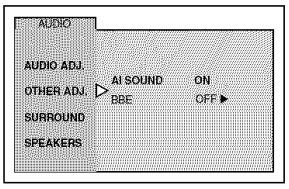
OTHER ADJ.

❒ AI SOUND - Equalize overall volume levels across all channels. (AI sound is not available in VIDEO mode for models CT-32SC14, CT-32SL14, and CT-36SL14 only).
❒ BBE® - BBE High Definition Sound restores clarity and presence for better speech intelligibility and music realism.

Note: *BBE is not available in models CT-20SL14, CT-24SL14, CT-27SC14 and CT-27SL14.*

Procedure

- Press **VOL** ▶ to select On or OFF.

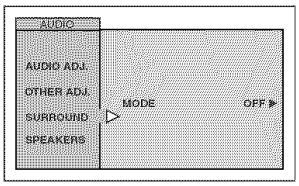


SURROUND

❒ MODE - Enhances audio response when listening to stereo.

Procedure

- Press **VOL** ▶ to select On or OFF.

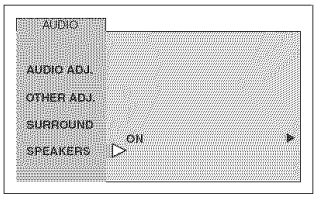


SPEAKERS

❒ SPEAKERS - This feature is used when connecting to an external amplifier.

Procedure

- Press **VOL** ▶ to select.
  - ON - TV speakers operate normally.
  - OFF & Variable Audio Out - TV speakers off - audio adjustable by television.
  - OFF & Fixed Audio Out - TV speakers off - audio adjustable by the external amplifier only.



Note: *Before selecting FAO, normalize AUDIO ADJ. for a better audio performance.*

ENGLISH

LOCK

MODE

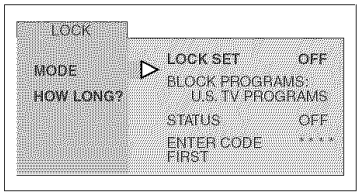
❒ LOCK SET - To prevent video games, VCR tapes and all channels and video modes from being viewed.

Notes:

- Use the remote numeric keypad to enter a four-digit secret code (Use a code that is easy to remember and record it in a safe place).
- If you do not remember your code, LOCK will unlock in 12, 24, or 48 hours, depending on the current setup. Be cautious when selecting ALWAYS. If ALWAYS is selected, and you forget your secret code, the TV must be serviced by a qualified technician to clear the LOCK setup.
- If you select CHANGE CODE, and you change your code from the one used in the LOCK menu, your new code becomes the controlling code.

Procedure

- Press **VOL ▶** to select.
  - OFF - Turns Lock function off.
  - GAME - Lock CH 3, 4 and Video inputs.
  - CHANNEL - Lock up to four channels.
  - ALL - Locks all channels and video inputs.



ACTION

- Press ● twice.
- Press **CH ▼** to highlight HOW LONG?
- Press **VOL ▶** to select 12 Hours, 24 Hours, 48 Hours or ALWAYS.

Note: *If **GAME**, **CHANNEL** or **ALL** is selected, and if a blocked channel or video input is selected, the message **LOCKED** displays in the upper left corner of the TV screen.*

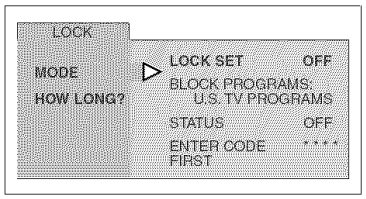
V-Chip Menu Operation

Procedure

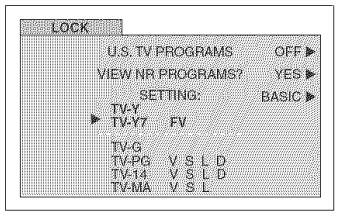
- Use the numeric keypad to enter your four digit code. **(Use a code that is easy to remember and record it in a safe place.)**
- Press **CH ▼** to enter the BLOCK PROGRAMS field.
- Press **◀ VOL** or **VOL ▶** to select desired option: U.S. TV Programs, U.S. Movies, Canadian English or Canadian French.
- Press **CH ▼** to highlight STATUS.
- Press **◀ VOL** or **VOL ▶** to display desired rating chart: U.S. TV Programs, U.S. Movies, Canadian English or Canadian French.
- Press **VOL ▶** to select ON or OFF.
- Press **CH ▼** to select VIEW NR PROGRAMS? for U.S. TV Programs and U.S. Movies or VIEW E PROGRAMS for Canadian English and Canadian French.
- Press **VOL ▶** to select YES or NO.

U.S. TV PROGRAMS

This TV model features the "V-Chip technology" which allows you to use U.S. TV PROGRAMS Guide ratings to block various types of TV programs.



Note: *Selecting "Yes", NR programs will be received. Selecting "NO", NR programs will be blocked (See Customer Caution on this page).*



Procedure

- Press **CH ▼** to select SETTING.
- Press **VOL ▶** to select BASIC or DETAILED.
  BASIC - Allows you to select only general ratings such as TV-Y, TV-PG, etc.
  DETAILED - Allows you to select both general ratings and content such as V, L, etc.
- Press **CH ▼** or **CH ▲** to move between different ratings.
- Use **◀ VOL** or **VOL ▶** to select ratings you want to block (RED) and unblock (GREEN).
- Press ACTION twice to return to MODE in Lock menu.
- Press **CH ▼** to select HOW LONG?.
- Press **◀ VOL** or **VOL ▶** to select 12, 24, 48 hours or ALWAYS.

Customer Caution

The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable, and none) per FCC Rules Section 15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"

- Emergency Bulletins (Such as EAS messages, weather warnings and others)
- Locally originated programming
- News
- Political
- Public Service Announcements
- Religious
- Sports
- Weather

U.S. TV Programs Rating Chart Description

NR	**Not Rated. SEE CUSTOMER CAUTION.**
TV-Y	**All children.** The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	**Directed to older children.** Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	**General audience.** It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	**Parental guidance suggested.** The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	**Parents strongly cautioned.** This program may contain sophisticated themes, sexual content, strong language and more intense violence.
TV-MA	**Mature audiences only.** This program may contain mature themes, profane language, graphic violence, and explicit sexual content.
FV	**FANTASY/CARTOON VIOLENCE**
V	**VIOLENCE**
S	**SEX**
L	**OFFENSIVE LANGUAGE**
D	**DIALOGUE WITH SEXUAL CONTENT**

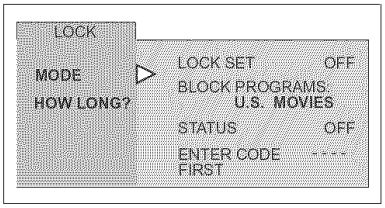
U.S. MOVIES

This TV model features the "V-Chip technology" which allows you to use Motion Picture Ratings when viewing movies or video tapes. This innovation allows parents to block various types of movies and video tapes at their discretion.

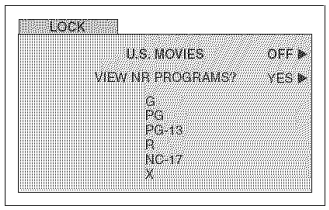
ENGLISH

V-Chip Menu Operation (cont.)

U.S. MOVIES (cont.)



Note: *Some movies are not rated for a variety of reasons. Old movies and foreign films are usually not rated.*



Procedure

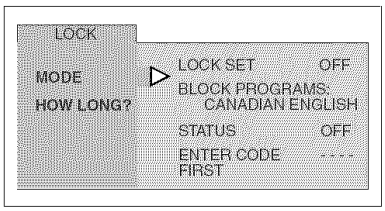
- Press **CH ▼** or **CH ▲** to move between different ratings.
- Use **◀ VOL** or **VOL ▶** to select ratings you want to block (**RED**) and unblock (**GREEN**).
- Press ACTION twice to return to MODE in Lock menu.
- Press **◀ VOL** or **VOL ▶** to select 12, 24, 48 hours or ALWAYS.

U.S. Movies Rating Chart Description

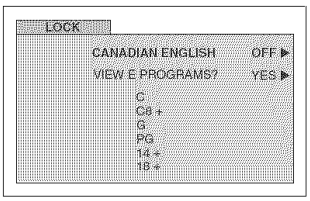
NR	**CONTAINS NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS**. Movie has not been rated or rating does not apply.
G	**GENERAL AUDIENCES.** All ages admitted.
PG	**PARENTAL GUIDANCE SUGGESTED.** Some material may not be suitable for children.
PG-13	**PARENTS STRONGLY CAUTIONED.** Some material may be inappropriate for children under 13.
R	**RESTRICTED.** Under 17 requires accompanying parent or adult guardian.
NC-17	**NO ONE 17 AND UNDER ADMITTED.**
X	**ADULTS ONLY.**

CANADIAN ENGLISH

The V-CHIP used in this TV model allows you to block various types of movies and television programs based on the two rating systems used in Canada.



Note: *E (Exempt) programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.*



Procedure

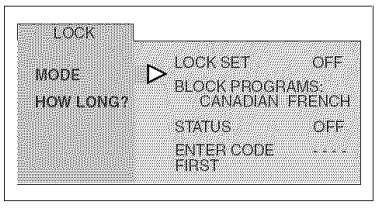
- Press **CH ▼** or **CH ▲** to move between different ratings.
- Use **◀ VOL** or **VOL ▶** to select ratings you want to block (**RED**) and unblock (**GREEN**).
- Press ACTION twice to return to MODE in Lock menu.
- Press **◀ VOL** or **VOL ▶** to select 12, 24, 48 hours or ALWAYS.

Canadian English Rating Description

E	**Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.**
C	**Programming intended for children under age 8. No offensive language, nudity or sexual content.**
C8+	**Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.**
G	**General programming, suitable for all audiences.**
PG	**Parental Guidance suggested. Some material may not be suitable for children.**
14+	**Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.**
18	**ADULTS ONLY**

CANADIAN FRENCH

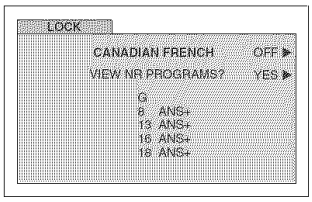
The V-CHIP used in this TV model also lets you block or unblock Canadian French programs according to various ratings categories.



Note: *E (Exempt) programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.*

V-Chip Menu Operation (cont.)

CANADIAN FRENCH (cont.)



Procedure

- Press **CH ▼** or **CH ▲** to move between different ratings.
- Use **◀ VOL** or **VOL ▶** to select ratings you want to block (**RED**) and unblock (**GREEN**).
- Press ACTION twice to return to MODE in Lock menu.
- Press **◀ VOL** or **VOL ▶** to select 12, 24, 48 hours or ALWAYS.

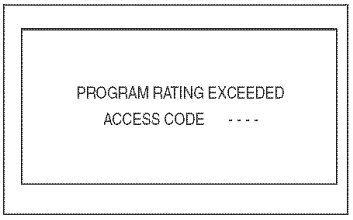
Canadian French Rating Description

E	**Exempt - Exempt programming.**
G	**General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.**
8 ans +	**8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.**
13 ans +	**Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.**
16 ans +	**Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.**
18 ans +	**Programming restricted to adults. Contains constant violence or scenes of extreme violence.**

BLOCKING MESSAGE

If V-Chip is enabled and the program exceeds the rating limit set by you, the blocking message will appear and the audio will be muted. Enter your four-digit secret code if you wish to continue viewing the program. After entering your code, all locks and rating blocks are disabled until the TV is turned off or until all settings are off.

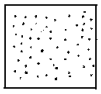
Note: *If you enter your four-digit secret code to override rating blocks, you must reset all rating blocks by either reprogramming or turning the TV off.*



ENGLISH

Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

AUDIO	VIDEO	Solutions
Noisy Audio	Snowy Video	Adjust Antenna Location and Connection Check Cable Connection
Noisy Audio	Multiple Image	Adjust Antenna Location and Connection Check Antenna Lead-in Wire Check Cable Connection
Noisy Audio	Interference	Move television from Electrical Appliances, Lights, Vehicles and Medical Equipment
No Audio	Normal Video	Increase Volume Check Mute Check television SPEAKERS on/off Change Channel
Noisy Audio	 No Video with Snow	Set TV or Cable Mode Properly Check Antenna Cables
No Audio	No Video	Check Power Cord is Plugged into Active Outlet Adjust Brightness and Audio Controls Change Channel Check Cable Connections Program the Remote Control Again Check Second Video Source Operation
Normal Audio	No Color	Adjust Color Settings Change Channel
Wrong Audio	Normal Video	Check Audio Is Set To Stereo or Mono, Not SAP
Normal Audio	Distorted Video	Check the format of Component Video input. Change to 480i.
Normal Audio	Normal Video	Replace Remote Control Batteries
Intermittent Remote Control Operation		
For 32" and 36" models only No effect of TV front control panel keys		Control panel may be locked. Press ACTION and VOL ▶ buttons on the TV front **simultaneously**, then quickly press ACTION and CH ▲ buttons **simultaneously**.
For 32" and 36" models only Picture Menu is locked.		Press ACTION and CH ▲ buttons on the TV front panel simultaneously to unlock.
For all models under 32" only No effect of TV front control panel keys		Control panel may be locked. Press ACTION and TV/VIDEO buttons on the TV front **simultaneously**, then quickly press ACTION and **VOL** ▶ buttons **simultaneously**.
For all models under 32" only Picture Menu is locked.		Press ACTION and TV/VIDEO buttons on the TV front **simultaneously**, then quickly press ACTION and ◀ **VOL** buttons **simultaneously**.

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ENGLISH

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF:
MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,
DIVISION OF:
MATSUSHITA ELECTRIC OF PUERTO RICO, INC., Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Color Television
Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

TV CATEGORIES	ALL PARTS EXCEPT CRT	CRT	LABOR	SERVICE
9"-21" diagonal	1 (ONE) YEAR	2 (TWO) YEARS	90 DAYS	CARRY-IN
22"-27" diagonal	1 (ONE) YEAR	2 (TWO) YEARS	90 DAYS	IN-HOME OR CARRY-IN
31"-36" diagonal	1 (ONE) YEAR	2 (TWO) YEARS	1 (ONE) YEAR	IN-HOME OR CARRY-IN

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in your product or arrange for in-home service (in-home service available only for 22" [diagonal] and larger screen), as applicable, during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-in or In-Home Service

For Carry-In or In-Home Service (as applicable) in the United States call 1-800-211-PANA(7262) or visit Panasonic Web Site: http://www.panasonic.com
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty continued on next page

Limited Warranty continued from previous page

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TVís, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/support

or, contact us via the web at:
http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-800-211-PANA (7262)

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books on line for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:
npcparts@panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company
20421 84th Avenue South,
Kent, WA 98032
(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Matsushita Electronic of Puerto Rico, Inc. Panasonic Sales Company
Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

LIMITED WARRANTY (FOR MODELS SOLD IN CANADA ONLY)

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

TELEVISION:

22" and over	**In-home Service**	**One (1) year, parts (including Picture Tube) and labour**

In-home Service will be carried out only to locations accessible by roads and within 50 Km of an authorized Panasonic service facility.

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.
This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, EXCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

For product operation and information assistance, please contact your Dealer or our Customer Care Centre at:
Telephone #: (905) 624-5505 Fax #: (905) 238-2360 Web: www.panasonic.ca

For product repairs, please contact one of the following:

- Your Dealer who will inform you of an authorized Servicentre nearest you.
- Our Customer Care Centre at (905) 624-5505 or www.panasonic.ca
- A Panasonic Factory Servicentre listed below:

Richmond, British Columbia	Calgary, Alberta	Mississauga, Ontario	Lachine, Québec
Panasonic Canada Inc. 12111 Riverside Way Richmond, BC V6W 1K8 Tel: (604) 278-4211 Fax: (604) 278-5627	Panasonic Canada Inc. 6835-8th St. N. E. Calgary, AB T2E 7H7 Tel: (403) 295-3955 Fax: (403) 274-5493	Panasonic Canada Inc. 5770 Ambler Dr. Mississauga, ON L4W 2T3 Tel: (905) 624-8447 Fax: (905) 238-2418	Panasonic Canada Inc. 3075, rue Louis A. Amos Lachine, QC H8T 1C4 Tel: (514) 633-8684 Fax: (514) 633-8020

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, New Jersey 07094
www.panasonic.com

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico Inc. ("PSC")
Ave. 65 de Infantería, Km 9.5
San Gabriel Industrial Park Carolina,
Puerto Rico 00985
Tel. (787) 750-4300
Fax (787) 768-2910

Panasonic Canada Inc.
5770 Ambler Drive
Mississauga, Ontario
Canada L4W 2T3
Tel./Tél.: (905) 624-5010
Fax/Téléc.: (905) 624-9714
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